


## Tag Slim Quuppa

### Quuppa Intelligent Locating System® asset tag

#### Data sheet



**Quuppa**

#### Key features

- Suitable for asset location and tracking
- Based on Nordic nRF52832
- Firmware based on Quuppa libraries
- 3-axis accelerometer for motion detection
- Splash-proof case with flexible fastening options
- Optional version with button and LEDs
- Powered by 2x replaceable CR2032 coin batteries

#### Quuppa Specifications

Quuppa Compatible: based on Quuppa libraries	
Full support of Quuppa Intelligent Locating System® functionalities: BLE and proprietary channels, back-channel communication, profile configuration, OTA FW update	
Configuration and diagnostics	QSP (Quuppa Site Planner), QPE (Quuppa Positioning Engine)
Advertising interval	0.1 to 10 secs (BLE channel) 0.01 to 10 secs (Quuppa proprietary channel)
Advertising channels	BLE (CH37 – 2.402 GHz) or Quuppa proprietary
Quuppa ID	MAC address or custom ID
Custom features	Advanced motion detection (intensity/duration, shock, free-fall, man-down) Advanced button management (single/double click, long-press) Back-channels commands for configuration and trigger notification

#### Device specifications

##### Electrical specifications

Core module	Nordic nRF52832 SoC (MCU and radio transceiver)
MCU core	ARM Cortex-M4 32-bit CPU
Current consumption (25°C)	Radio TX: 7.1 mA (0 dBm TX) Radio RX: 6.5 mA Idle mode: 3 µA Idle mode with accelerometer ON: 7 µA

##### Radio specifications

Standard	Quuppa Intelligent Locating System®
Frequency band	2.401 to 2.481 GHz (Bluetooth LE 4.0 + Quuppa proprietary channels)
Channel spacing	2 MHz
TX power	-40, -20 to 4 dBm (with 4 dB steps)
RX sensitivity	-94 dBm



<b>Antenna</b>		
Type	Integrated meandered planar inverted F-antenna (PIFA)	
Gain	2 dB (max)	
Radiation diagram	Omnidirectional	
<b>Power</b>		
Power supply	Battery	
Replaceable	Yes	
Type	2x CR2032 (3V, lithium)	
Model	Panasonic CR2032 or equivalent (typical capacity 440 mAh @ 25°C)	
<b>Sensors and interfaces</b>		
Version	STD	BUT
Sensors	3-axis MEMS linear accelerometer	3-axis MEMS linear accelerometer Button
Interfaces	-	2x LEDs
<b>Mechanical specifications</b>		
Material	ABS plastic	
Color	White	
Size	67 x 33 x 9 mm	
Weight	18 gr	
Fastening	4 holes for max. M3.5 screws or cable-ties	
Opening	4 screws	
Protection	IP54	
Flammability	UL 94 HB	
<b>Environmental specifications</b>		
Operating temperature	-20°C to +60°C (battery operating life sharply decreases under 0°C)	
Storage temperature	+10°C to +30°C (with battery), -40°C to +85°C (without battery)	
<b>Certifications</b>		
CE, FCC		

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